

Last year, our team designed and constructed intelligent genetically engineered bacteria to eliminate residues on vegetables and fruit's surface. Our bacteria secrete the OMP enzyme under the temperature control and can only be activated at 32°C. In addition, UV-induced suicide gene is inserted into the bacteria: upon exposure to UV or sunshine, the suicide procedure is induced to avoid the secondary pollution.

This year, we are going to test this bacterium. First, we will test if OMP expression is induced at 32°C. Second, we will test the OMP activity secreted by our strain. Finally, we will test how many bacteria suicide under different magnitude of UV. If any of our bio-brick does not work well, we will find new solutions this year.